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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,887	04/16/2004	Klemens Kohlgrueber	PO8141/LeA 35,579	8603
157	157 7590 07/07/2005		EXAMINER	
BAYER MATERIAL SCIENCE LLC			BOYKIN, TERRESSA M	
100 BAYER ROAD PITTSBURGH, PA 15205			ART UNIT	PAPER NUMBER
			1711	
			DATE MAILED: 07/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
Office Action Comments	10/825,887	KOHLGRUEBER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Terressa M. Boykin	1711				
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory is  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON.  FR 1.136(a). In no event, however, may a repon.  , a reply within the statutory minimum of thirty (period will apply and will expire SIX (6) MONTH statute, cause the application to become ABA	ly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status		·				
1) Responsive to communication(s) filed on	07 March 2005.					
•	· ——					
3) Since this application is in condition for al	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice un	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>5,9-13 and 15-17</u> is/are pending	☑ Claim(s) <u>5,9-13 and 15-17</u> is/are pending in the application.					
4a) Of the above claim(s) is/are wit	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) is/are allowed.	☑ Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>5,9-13 and 15-17</u> is/are rejected	☑ Claim(s) <u>5,9-13 and 15-17</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	B) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on <u>16 April 2004</u> is/are: a) ⊠ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	·	·				
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Both * See the attached detailed Office action for a	ments have been received. ments have been received in App priority documents have been re ureau (PCT Rule 17.2(a)).	olication No eceived in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
<ul> <li>2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/S</li> </ul>		rmal Patent Application (PTO-152)				
Paper No(s)/Mail Date 6)  Other:						

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## **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Applicant's arguments with respect to previous rejected claims have been considered but are moot in view of an updated search report obtained and thus, the resulting the new ground(s) of rejection.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 5 and 9-13 and 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by USPub 20020035234 abstract, pages 1-2 and figure 1.

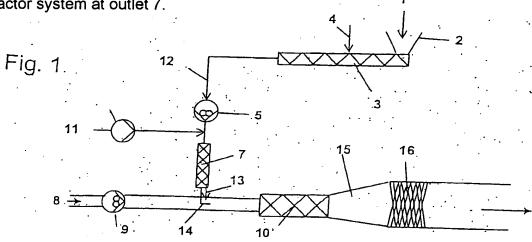
Although applicants' claims refer to the mixing of viscous polycarbonates by way of the addition of additives to the polymer, the continuous process of making polycarbonates would anticipate the said "mixing ... additives to a polymer polycarbonates" since during the mixing process of the reference an oligomeric moiety is formed and an endcapped agent is mixed therewith prior to being fed to the feed line.

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The reference notes that the method is especially suited for the continuous preparation of endcapped oligomers of tetrabromobisphenol A polycarbonate. More importantly, when viewing the apparatus of the reference itself, it appears to contain the same reactor systems as claimed by applicants.

The FIGURE, illustrates a continuous reactor system comprising a tubular reactor coupled to a stirred tank reactor which is in turn coupled to a plug flow reactor. The tubular reactor is comprised of two sections, Reactor Section I and Reactor Section II. Feeds #1-3 are introduced into the tubular reactor through an upstream inlet 1. Feeds 4 and 5 are introduced at downstream inlet 2. The reaction mixture formed by the combination of Feeds #1-5 exits the tubular reactor at outlet 3 and is fed into a continuous stirred tank reactor 4. The reaction mixture exits the continuous stirred tank reactor via outlet and is fed to a plug flow reactor via inlet 6. Product polycarbonate exits the continuous reactor system at outlet 7.



Note that the reference discloses that prior to introduction into the reactor system, a feed stream or combination of feed streams may be mixed using suitable mixing means

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illustrated by in-line mixers, or static mixers and orifice mixers. As mentioned, "feed stream" and "feed streams" refer to the components entering the reactor system in steps (A) and (C). Mixing zones may be established before the feed streams are introduced into the reactor system or thereafter. Thus, the reactor system itself may comprise one or more mixing zones. It is appears according to the figure of the reference that the mixing tube of the second static mixer is larger that that of the first static mixer. Further, note that the process is a continuous process, i.e. recycles polycarbonate. Lastly, when comparing the figure 1 of the reference with applicants claim language as well as with the drawing provided by applicants, there appears to be no significant difference between the reference and that which is claimed by applicant(s). Any differences not specifically mentioned appear to be conventional. Consequently, the claimed invention cannot be deemed as novel and accordingly is unpatentable.

## Correspondence

Please note that the <u>cited</u> U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, <u>all</u> U.S. patents and patent application publications are available on the USPTO web site (<u>www.uspto.gov < http://www.uspto.gov></u>), from the Office of Public Records and from commercial sources. Applicants may be referred to the Electronic Business Center (EBC) at < http://www.uspto.gov/ebc/index.html> or 1-866-217-9197.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Terressa Boykin whose telephone number is

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571 272-1069. The examiner can normally be reached on Monday through Friday from 6:30am to 3:00pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The general information number for listings of personnel is (571-272-1700).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tmb

Examiner Terressa Boykin Primary Examiner

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